

Purchase Order Receipt Listing

Thursday, March 30, 2017 3:18:27 PM

All Vendors PO ID PO35685 Receipt Dates from 3/30/2017 to 3/30/2017 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Line Nbr/ Curr Type	Project ID/ Line Nbr/ Insp Req	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date/ Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name										
PO35685	1	VU-TWM001	TW Metals							
USD	No	M304TR0.500W.035 f 304 RD Tube .500 x f .035W m137199 9-89		3/31/2017 20.0000	3/30/2017 PL0U01	20.0000	20.0000	0.0000	0	\$0.00

Total Received Quantity:

20.0000

Total Qty to Inspect (PO U/M):

0.0000

Total Reject Quantity:

0.0000

Total Receipt Value:

0.0000

Total Balance Due Quantity:

0.0000



O'Neal High-Performance Metals Group



Packing
Slip

ORDER NO.: 70652064 FROM: ATLA PAGE 2

CUST NUMBER: 1203820	NET WGT:	3.475	REQ. DATE: 03/31/17 CONFIRMED
SOLD TO:		SHIP TO:	
DART AEROSPACE LTD		DART AEROSPACE LTD	
1270 ABERDEEN ST		1270 ABERDEEN ST	
HAWKESBURY ON		HAWKESBURY ON	
CANADA	CN K6A 1K7	ONTARIO CANADA	CN K6A 1K7
SALESPERSON:	DONNA SMALLEY	SHIP BY:	03/27/17
TERMS:	NET 30 DAYS	175 TUBEWAY	
F.O.B.:	SHIPPING POINT	FOREST PARK	GA 30297
CUST ORD NO.:	PO35685 IT 01		
VIA:	FED-EX GROUND		
FREIGHT:	PREPAID		
RELEASE NO.:			
RECEIVING PHONE:			

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Authorized Test Report Clerk

Date: 3/24/17

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

1
THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.
<http://www.twmetals.com/invoice-terms.html>

PUFA™

Producer of Premium Stainless Steel Seamless Tubes

MILL TEST REPORT

Purchaser.: TW METALS-Atlanta	Certificate No.: 2017-1-45					
Contract No.: TWM P.O.No.: M49356538	Date of Issue.: 2017.1.11					
Commodity: Stainless Steel Seamless Tubes	Specifications: ASTM A213-15c/ASME SA213-15/ASTM A269-15a EAW					
Process: Cold Drawn	Delivery Condition: OD Polished to 240 Grit					
Steel Grade	Heat Number	Lot Number	Dimensions		Quantity	
			1/2"x0.035"x20'		Pieces	Feet
TP304/TP304L	YX1602-588	11-31			450	9,000

Chemical Composition by Weight (%)

Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.018	1.20	0.034	0.002	0.32	18.15	8.05	-	-
Product Analysis	0.015	1.08	0.036	0.003	0.33	18.52	8.43	-	-

Mechanical Properties

Test Item	Elongation (% in 2")		Tensile Strength (PSI)		Yield Strength (PSI)		
	Rm	Rp / 0.2%	Rm	Rp / 0.2%	Flattening Test	Flange Test	P.M.I. Test
Requirements	≥35		≥75,000		≥30,000		
Test Results	61/62		99,000/100,000		44,000/45,000		
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.I. Test
Requirements	-	HRB≤80	-	22%	e=0.09	-	-
Test Results	-	77/79	-	Passed	Passed	-	OK
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection		
Requirements	ASTM E 426	-	-	ASTM A262 E	End Cut	Appearance	
Test Results	Passed	-	-	OK	OK	OK	

ISO 9001:2008 Certified by CAS 117 16 QU 0053-06 ROS

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

**CANNOT CERTIFY COMPLIANCE
FAR BAA / DFARS BAA / FAR TAA**



By:

James Shi

James Shi / Manager

Quality Control Department

We hereby certify that this report is true and correct.

Jiangsu Pufa Stainless Steel Tube Co., Ltd.
No. 99, Xuean Middle Road, Dongchen Town, Rugao City, Jiangsu Province, P.R.China

TEST REPORTS
ACCEPTED BY

LLB

FFR 09 2017

49356538

TW METALS

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M3cytro.50ew.035
 DATE: 17-04-03

PO / BATCH NO.: P035685/M137199

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20
 QUANTITY INSPECTED: 20
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .500
 THICKNESS RECEIVED: .500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>ASTM A213-15</u>
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>2147 YX1602-588</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9-89</u>		SIGNED OFF BY: _____
DATE: <u>17-04-03</u>		DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35685**

Purchase Order Date 3/23/2017

PO Print Date 3/23/2017

Page Number 1 of 4

Order From : VU-TWM001

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

RECEIVED
MAR 23 2017

Contact Name
Vendor Phone 585 768 5600

Buyer Chantal Lavoie

Ship To Contact
Ship To Phone
Ship Via: YRC COLLECT
Ship Acct:

Customer POID 10127-2607
Customer Tax #
Terms Net 30
Currency USD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M304TR0.500W.035 ✓ <i>DAS 9</i>	304 RD Tube .500 x .035W ✓	3/31/2017 Yes 3/31/2017	✓	20.00 f ✓ <i>3/0</i>	\$1.50 ✓	\$30.00 ✓ <i>SP17-03-30</i>
2	M304TR0.500W.049 ✓	304 RD Tube .500 x .049W ✓	3/31/2017 Yes 3/31/2017	✓	60.00 f ✓	\$2.80 ✓	\$168.00 ✓ <i>SP17-03-28 3 PCS.</i>

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35685**

Purchase Order Date 3/23/2017

PO Print Date 3/23/2017

Page Number 2 of 4

Order From : VU-TWM001

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 585 768 5600

Buyer Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency USD

FOB FCA - (Free Carrier)

Ship To Contact
Ship To Phone
Ship Via: YRC COLLECT
Ship Acct:

3 M316TR1.00W.120 ✓ 316 RD tubing 1.00 x .120w 3/31/2017
Yes 3/31/2017

12.00 ✓ *recd 20 ft* \$5.00 \$60.00
f /
100.00

MATERIAL: AISI 316 SA SEAMLESS ROUND TUBING
AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

NOTE: 304 NOT ACCEPTABLE 316 REQUIRED

4 M6061T6T0.375W.058 ✓ 6061-T6 RD Tube .375 x .058W 3/31/2017
Yes 3/31/2017

Line Total: \$60.00
80.00 ✓ *recd 8ft ft.* \$2.15 \$172.00
f /
180.40

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR
ASTM B241

SFT 403-28

Line Total: \$172.00

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

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Purchase Order Date 3/23/2017

PO Print Date 3/23/2017

Page Number 3 of 4

Order From :
TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

VU-TWM001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	585 768 5600	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	YRC COLLECT	Currency	USD
Ship Acct:		FOB	FCA - (Free Carrier)
5 M6061T6T0.625W.125	6061-T6 RD Tube 0.625 X.125W	3/31/2017	20.00 f <i>Recd 24 ft</i> \$5.15 \$103.00
		Yes	3/31/2017

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR
ASTM B241

			Line Total:	\$103.00
6 M6061T6T1.000W065	6061T6 RD TUBE 1.00 x .065W	3/31/2017	20.00 f <i>Recd 24 ft</i> \$2.96 \$59.20	

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR
ASTM B241

Line Total: \$59.20

Note:



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PURCHASE ORDER

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Purchase Order Date 3/23/2017

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Page Number 4 of 4

Order From :

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

VU-TWM001

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 585 768 5600

Buyer Chantal Lavoie

Ship To Contact

Ship To Phone

Ship Via: YRC COLLECT

Customer POID

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Ship Acct:

7 71401-45 PROCUREMENT 3/31/2017 1.00 \$0.00 \$0.00

QUALITY CLAUSES

No

3/31/2017

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

3/14/03-28

Line Total: \$0.00

PO Total: \$592.20

CL

U

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 3/23/2017